

Docket No. 221519US0PCT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Seiko HIRANO, et al.
SERIAL NO: New US PCT application based on PCT/JP00/06913
FILED: Herewith
FOR: GENES FOR HEAT RESISTANT ENZYMES OF AMINO ACID BIOSYNTHETIC PATHWAY DERIVED FROM THERMOPHILIC CORYNEFORM BACTERIA
GAU:
EXAMINER:

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

SIR:
Applicant(s) wish to disclose the following information.

REFERENCES

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RELATED CASES

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DEPOSIT ACCOUNT

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Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, P.C.


Norman F. Oblon

Registration No. 24,618

Surinder Sachar

Registration No. 34,423



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10/089057

JC13 Rec'd PCT/PTO 03 APR 2002
SHEET 1 OF 2

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 221519US0PCT		SERIAL NO. New US PCT application based on PCT/JP00/06913	
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO		
~	AC	7-63383 ✓	07/12/95	JP			No
~	AD	4-4887 ✓	01/09/92	JP			No
~	AE	5-56782 ✓	03/09/93	JP			No
~	AF	92/18635 ✓	10/29/92	WO			No
~	AG	94/08016 ✓	04/14/94	WO			No
~	AH	96/32484	10/17/96	WO			No
~	AI	95/23224 ✓	08/31/95	WO			No
~	AJ	10-234371	09/08/98	JP			No
~	AK	7-121227 ✓	12/25/95	JP			No
~	AL	99/18228 ~	04/15/99	WO			No
~	AM	10-165180 ✓	06/23/98	JP			No
~	AN	2-291276 ✓	04/18/90	JP			No
~	AO	11-196887 ✓	07/27/99	JP			No
~	AP	8-66189 ✓	03/12/96	JP			No
~	AQ	97/48790 ✓	12/24/97	WO			No
~	AR	95/34672 ✓	12/21/95	WO			No
~	AS	6-502548 ✓	03/24/94	JP			No
~	AT	8-196280 ✓	08/06/96	JP			No
~	AU	5-244958 ✓	09/24/93	JP			No
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
~	AV	K. TAKAI et al.: "PPC, the gene for phosphoenolpyruvate carboxylase from an extremely thermophilic bacterium, rhodothermus obamensis: cloning, sequencing and overexpression in Escherichia coli" MICROBIOLOGY, vol. 144, no. 5, pages 1423-1434 1989 ✓					
~	AW	D. WERECKE et al.: "Cloning and sequence analysis of the gene encoding Isocitrate lyase from Rhodococcus fascians" GENE, vol. 145, no. 1, pages 109-114 1994 ✓					
~	AX	W. JAGER et al.: "A Corynebacterium glutamicum gene encoding a two-domain protein similar to biotin carboxylases and biotin-carboxyl-carrier proteins" ARCH. MICROBIOL., vol. 166, no. 2, pages 977-984 1996 ✓					
~	AY	S. DONADIO et al.: "Erythromycin production in saccharopolyspora erythraea does not require a functional propionyl-CoA carboxylase" MOL. MICROBIOL., vol. 19, pages 977-984 1996 ✓				<input checked="" type="checkbox"/> Additional References sheet(s) attached	
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~	AZ	E. KUMURA et al.: "Molecular cloning of a novel gene, dtsR, which rescues the detergent sensitivity of a mutant derived from <i>Brevibacterium lactofermentum</i> " BIOSCI. BIOTECHNOL. BIOCHEM., vol. 60, pages 1565-1570 1996 ✓					
~	AAA	A.M. ALVES et al.: "Characterization and phylogeny of the pfp gene of <i>Ammycolatopsis methanolica</i> encoding PPI-dependent phosphofructokinase" J. BACTERIOL., vol. 178, pages 149-155 1996 ✓					
~	AAB	A.M.C.R. ALVES et al.: "Identification of ATP-dependent phosphofructokinase as a regulatory step in the glycolytic pathway of the actinomyces <i>Streptomyces coelicolor</i> " APPL. ENVIRON. MICROBIOL., vol. 63, pages 951-956 1997 ✓					
~	AAC	W. KRONEMEYER et al.: "Structure of the gluABCD cluster encoding the glutamate uptake system of <i>Corynebacterium glutamicum</i> " J. BACTERIOL., vol. 177, pages 1152-1158 1995 ✓					
~	AAD	C. ROLLIN et al.: "13C-NMR studies of <i>Corynebacterium melassecola</i> metabolic pathways" EUR. J. BIOCHEM., vol. 227, no. 1-2, pages 488-493 1995 ✓					
~	AAE	S. HEIN et al.: "Biochemical and molecular characterization of the <i>Alcaligenes eutrophus</i> pyruvate dehydrogenase complex and identification of new type of dihydrolipoamide dehydrogenase" J. BACTERIOL., vol. 176, pages 4394-4408 1994 ✓					
~	AAF	P.E. STEPHENS et al.: "The pyruvate dehydrogenase complex of <i>Escherichia coli</i> K12. Nucleotide sequence encoding the pyruvate dehydrogenase component" EURO. J. BIOCHEM., vol. 133, pages 155-162 1983 ✓					
~	AAG	M.P. RUKLISH et al.: "The functioning of the tricarboxylic acid cycle in <i>Brevibacterium flavum</i> and <i>Micrococcus glutamicus</i> " MIKROBIOLOGIA, vol. 56, no. 5, pages 759-763 1987 ✓					
~	AAH	J.M. MENGAUD et al.: "The major iron-containing protein of <i>Legionella pneumophila</i> is an aconitase homologous with the human iron-responsive element-binding protein" J. BACTERIOL., vol. 175, pages 5666-5676 1993 ✓					
~	AAI	C. PRODROMOU et al.: "The aconitase of <i>Escherichia coli</i> . Nucleotide sequence of the aconitase gene and amino sequence similarity with mitochondrial isopropylmalate isomerases" EUR. J. BIOCHEM., vol. 204, pages 599-609 1992 ✓					
~	AAJ	B.J. EIKMANN et al.: "Cloning, sequence analysis, expression, and inactivation of the <i>Corynebacterium glutamicum</i> icd gene encoding isocitrate dehydrogenase and biochemical characterization of the enzyme" J. BACTERIOL., vol. 177, pages 774-782 1993 ✓					
~	AAK	A. ISHI et al.: "Genes encoding two isocitrate dehydrogenase isozymes of a psychrophilic bacterium, <i>Vibrio</i> sp. Strain ABE-1" J. BACTERIOL., vol. 175, pages 6873-6880 1993 ✓					
~	AAL	B.J. EIKMANN et al.: " <i>Corynebacterium glutamicum</i> lpd gene, complete CDS" GENBANK ACC. NO. Y16642 02/01/99					
~	AAM	E.R. BOERMANN et al.: "Molecular analysis of the <i>Corynebacterium glutamicum</i> gdh gene encoding glutamate dehydrogenase" MOL. MICROBIOL., vol. 6, pages 317-326 1992 ✓					
~	AAN	B.J. EIKMANN et al.: "Nucleotide sequence, expression and transcriptional analysis of the <i>Corynebacterium glutamicum</i> gltA gene encoding citrate synthase" MICROBIOLOGY, vol. 140, pages 1817-1828 1994 ✓					
~	AAO	M.A. PARDO et al.: "Nodulation ability of <i>Rhizobium tropici</i> is conditioned by plasmid-encoded citrate synthase" MOL. MICROBIOL., vol. 11, pages 315-321 1994 ✓					
Examiner				Date Considered			
MARK NAVARRO				7/6/04			

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IN RE APPLICATION OF: Seiko Instruments, Inc., et al.

SERIAL NO: 10/089,057

GAU: 1645

FILED: April 3, 2002

EXAMINER: ALBERT MARK NAVARRO

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ALEXANDRIA, VIRGINIA 22313

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MAIER & NEUSTADT, P.C.
Norman F. Oblon

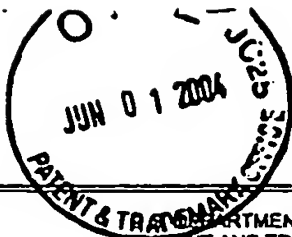
Vincent K. Shier, Ph.D.

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	AV						
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~	AW	K. L. BRITTON, et al., European Journal of Biochemistry, vol. 229, no. 3, XP-009027920, pages 688-695, "INSIGHTS INTO THERMAL STABILITY FROM A COMPARISON OF THE GLUTAMATE DEHYDROGENASES FROM PYROCOCCLUS FURIOSUS AND THERMOCOCCUS LITORALIS", 1995					
~	AX	J. H. G. LEBBINK, et al., Journal of Molecular Catalysis B: ENZYMATIC, vol. 7, no. 1-4, XP-001180258, pages 133-145, "GLUTAMATE DEHYDROGENASE FROM HYPERTHERMOPHILIC BACTERIA AND ARCHAEA: DETERMINANTS OF THERMOSTABILITY AND CATALYSIS AT EXTREMELY HIGH TEMPERATURES", September 15, 1999					
	AY						
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MAIER & NEUSTADT, P.C.


Norman F. Oblon

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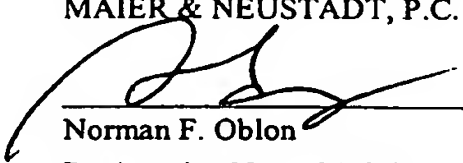
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Seiko HIRANO, et al.

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1645

U.S. PATENT DOCUMENTS

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~	AA	5,250,434	10/05/1993	K. YAMADA, et al.	—	—	
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

~	AW	D. J. REINSCHIED, et al., Journal of Bacteriology, vol. 176, no. 12, XP-009014047, pages 3474-3483, "CHARACTERIZATION OF THE ISOCITRATE LYASE GENE FROM CORYNEBACTERIUM GLUTAMICUM AND BIOCHEMICAL ANALYSIS OF THE ENZYME", June 1994				
~	AX	R. M. CHELL, et al., Biochemical Journal, vol. 173, no. 1, XP-001156125, pages 165-177, "ISOLATION AND CHARACTERIZATION OF ISOCITRATE LYASE FROM A THERMOPHILIC BACILLUS SP.", 1978				
~	AY	J. M. MUIR, et al., Protein Engineering, vol. 8, no. 6, XP-009020603, pages 583-592, "CITRATE SYNTHASE FROM THE HYPERTHERMOPHILIC ARCHAEON, PYROCOCCLUS FURIOSUS", 1995				
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Examiner

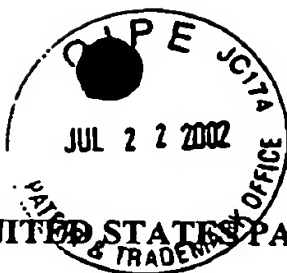
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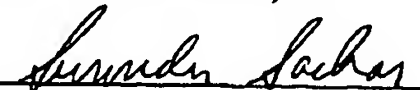
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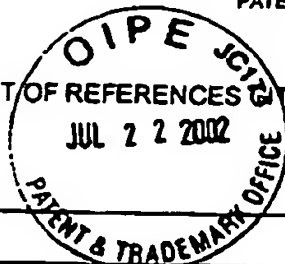
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~	AO	616168 ✓	02/10/88	AU (equivalent of JP 3-240779)		No
~	AP	63-119688 ✓	05/24/88	JP (abstract only)		No
~	AQ	61-268185 ✓	11/27/86	JP (abstract only)		No
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STATEMENT OF RELEVANCY

- 1) References _____ have been cited in the International Search Report. Copies of these references are being submitted herewith only when not automatically provided by the International Searching Authority.
- 2) References _____ have been cited in the corresponding _____ Search Report. A copy of these references is being submitted herewith.
- 3) References AO-AR are discussed in the specification. A copy of these references is being submitted herewith.
- 4) References _____ are additional prior art known to Applicant. A copy of these references is being submitted herewith.